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STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/530,843A
Source: PT/JP
Date Processed by STIC: 1/17/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/530,843A

TIME: 11:39:16

Input Set : A:\Co10217se.txt

Output Set: N:\CRF4\01172006\J530843A.raw

3 <110> APPLICANT: Consortium fuer elektrochemische Industrie GmbH
 5 <120> TITLE OF INVENTION: Feedback-resistant Homoserine-Transsuccinylases
 7 <130> FILE REFERENCE: CO-P#####
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/530,843A
 C--> 10 <141> CURRENT FILING DATE: 2005-04-08
 12 <160> NUMBER OF SEQ ID NOS: 12
 14 <170> SOFTWARE: PatentIn Ver. 2.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 930
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Escherichia coli
 21 <220> FEATURE:
 22 <221> NAME/KEY: CDS
 23 <222> LOCATION: (1)..(930)
 25 <300> PUBLICATION INFORMATION:
 26 <301> AUTHORS: Blattner, F. R.
 27 <302> TITLE: The complete genome sequence of Escherichia coli K-12.
 28 <303> JOURNAL: Science
 29 <304> VOLUME: 277
 30 <305> ISSUE: 5331
 31 <306> PAGES: 1453-1474
 32 <307> DATE: 1997
 34 <400> SEQUENCE: 1
 35 atg ccg att cgt gtg ccg gac gag cta ccc gcc gtc aat ttc ttg cgt 48
 36 Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg
 37 1 5 10 15
 39 gaa gaa aac gtc ttt gtg atg aca act tct cgt gcg tct ggt cag gaa 96
 40 Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala Ser Gly Gln Glu
 41 20 25 30
 43 att cgt cca ctt aag gtt ctg atc ctt aac ctg atg ccg aag aag att 144
 44 Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
 45 35 40 45
 47 gaa act gaa aat cag ttt ctg cgc ctg ctt tca aac tca cct ttg cag 192
 48 Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
 49 50 55 60
 51 gtc gat att cag ctg ttg cgc atc gat tcc cgt gaa tcg cgc aac acg 240
 52 Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
 53 65 70 75 80
 55 ccc gca gag cat ctg aac aac ttc tac tgt aac ttt gaa gat att cag 288
 56 Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
 57 85 90 95
 59 gat cag aac ttt gac ggt ttg att gta act ggt gcg ccg ctg ggc ctg 336
 60 Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu

*Suggestion: update PatentIn
 by using the free
 PatentIn 3.3.*
Does Not Comply
Corrected Diskette Needed
*software,
 available
 on the
 USPTO website:
 www.uspto.gov.*
pp 4-6

RAW SEQUENCE LISTING

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Input Set : A:\Co10217se.txt

Output Set: N:\CRF4\01172006\J530843A.raw

```

61          100          105          110
63  gtg gag ttt aat gat gtc gct tac tgg ccg cag atc aaa cag gtg ctg 384
64  Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu
65          115          120          125
67  gag tgg tcg aaa gat cac gtc acc tcg acg ctg ttt gtc tgc tgg gcg 432
68  Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala
69          130          135          140
71  gta cag gcc gcg ctc aat atc ctc tac ggc att cct aag caa act cgc 480
72  Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg
73  145          150          155          160
75  acc gaa aaa ctc tct ggc gtt tac gag cat cat att ctc cat cct cat 528
76  Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His
77          165          170          175
79  gcg ctt ctg acg cgt ggc ttt gat gat tca ttc ctg gca ccg cat tcg 576
80  Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser
81          180          185          190
83  cgc tat gct gac ttt ccg gca gcg ttg att cgt gat tac acc gat ctg 624
84  Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu
85          195          200          205
87  gaa att ctg gca gag acg gaa gaa ggg gat gca tat ctg ttt gcc agt 672
88  Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser
89          210          215          220
91  aaa gat aag cgc att gcc ttt gtg acg ggc cat ccc gaa tat gat gcg 720
92  Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala
93  225          230          235          240
95  caa acg ctg gcg cag gaa ttt ttc cgc gat gtg gaa gcc gga cta gac 768
96  Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp
97          245          250          255
99  ccg gat gta ccg tat aac tat ttc ccg cac aat gat ccg caa aat aca 816
100  Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr
101          260          265          270
103  ccg cga gcg agc tgg cgt agt cac ggt aat tta ctg ttt acc aac tgg 864
104  Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp
105          275          280          285
107  ctc aac tat tac gtc tac cag atc acg cca tac gat cta cgg cac atg 912
108  Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met
109          290          295          300
111  aat cca acg ctg gat taa 930
112  Asn Pro Thr Leu Asp
113  305
116 <210> SEQ ID NO: 2
117 <211> LENGTH: 309
118 <212> TYPE: PRT
119 <213> ORGANISM: Escherichia coli
121 <400> SEQUENCE: 2
122  Met Pro Ile Arg Val Pro Asp Glu Leu Pro Ala Val Asn Phe Leu Arg
123    1          5          10          15
125  Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala Ser Gly Gln Glu
126          20          25          30

```

RAW SEQUENCE LISTING

DATE: 01/17/2006

PATENT APPLICATION: US/10/530,843A

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Input Set : A:\Co10217se.txt

Output Set: N:\CRF4\01172006\J530843A.raw

```

128  Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met Pro Lys Lys Ile
129              35                      40                      45
131  Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn Ser Pro Leu Gln
132              50                      55                      60
134  Val Asp Ile Gln Leu Leu Arg Ile Asp Ser Arg Glu Ser Arg Asn Thr
135              65                      70                      75                      80
137  Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe Glu Asp Ile Gln
138              85                      90                      95
140  Asp Gln Asn Phe Asp Gly Leu Ile Val Thr Gly Ala Pro Leu Gly Leu
141              100                     105                     110
143  Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile Lys Gln Val Leu
144              115                     120                     125
146  Glu Trp Ser Lys Asp His Val Thr Ser Thr Leu Phe Val Cys Trp Ala
147              130                     135                     140
149  Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro Lys Gln Thr Arg
150  145                      150                      155                      160
152  Thr Glu Lys Leu Ser Gly Val Tyr Glu His His Ile Leu His Pro His
153              165                      170                      175
155  Ala Leu Leu Thr Arg Gly Phe Asp Asp Ser Phe Leu Ala Pro His Ser
156              180                      185                      190
158  Arg Tyr Ala Asp Phe Pro Ala Ala Leu Ile Arg Asp Tyr Thr Asp Leu
159              195                      200                      205
161  Glu Ile Leu Ala Glu Thr Glu Glu Gly Asp Ala Tyr Leu Phe Ala Ser
162              210                      215                      220
164  Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro Glu Tyr Asp Ala
165  225                      230                      235                      240
167  Gln Thr Leu Ala Gln Glu Phe Phe Arg Asp Val Glu Ala Gly Leu Asp
168              245                      250                      255
170  Pro Asp Val Pro Tyr Asn Tyr Phe Pro His Asn Asp Pro Gln Asn Thr
171              260                      265                      270
173  Pro Arg Ala Ser Trp Arg Ser His Gly Asn Leu Leu Phe Thr Asn Trp
174              275                      280                      285
176  Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp Leu Arg His Met
177  290                      295                      300
179  Asn Pro Thr Leu Asp
180  305

```

183 <210> SEQ ID NO: 3

184 <211> LENGTH: 30

185 <212> TYPE: DNA

186 <213> ORGANISM: Artificial Sequence

188 <220> FEATURE:

189 <223> OTHER INFORMATION: Description of Artificial Sequence:

190 Oligonucleotide metaFw

192 <400> SEQUENCE: 3

193 gatcccatgg ctcttttag tcattcttat

30

196 <210> SEQ ID NO: 4

197 <211> LENGTH: 36

198 <212> TYPE: DNA

199 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING

DATE: 01/17/2006

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TIME: 11:39:16

Input Set : A:\Co10217se.txt

Output Set: N:\CRF4\01172006\J530843A.raw

201 <220> FEATURE:
 202 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
 203 metArev
 205 <400> SEQUENCE: 4
 206 gatcgagctc agtactatta atccagcggt ggattc 36
 209 <210> SEQ ID NO: 5
 210 <211> LENGTH: 33
 211 <212> TYPE: DNA
 212 <213> ORGANISM: Artificial Sequence
 214 <220> FEATURE:
 215 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
 216 GAPDHfw
 218 <400> SEQUENCE: 5
 219 gtcgacgcgt gagcgagctc agtcgcgtaa tgc 33
 222 <210> SEQ ID NO: 6
 223 <211> LENGTH: 42
 224 <212> TYPE: DNA
 225 <213> ORGANISM: Artificial Sequence
 227 <220> FEATURE:
 228 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
 229 GAPDHrevII
 231 <400> SEQUENCE: 6
 232 gaccttaatt aagatctcat atgttccacc agctatttgt ta 42
 235 <210> SEQ ID NO: 7
 236 <211> LENGTH: 37
 237 <212> TYPE: DNA
 238 <213> ORGANISM: Artificial Sequence
 240 <220> FEATURE:
 241 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
 242 metAfw2
 244 <400> SEQUENCE: 7
 245 catggctcct tttagtcatt cttatattct aacgtag 37
 248 <210> SEQ ID NO: 8
 249 <211> LENGTH: 47
 250 <212> TYPE: DNA
 251 <213> ORGANISM: Artificial Sequence
 253 <220> FEATURE:
 254 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
 255 metArev2
 257 <400> SEQUENCE: 8
 258 acgcgtatgc atccagagct cagtactatt aatccagcgt tggattc 47
 261 <210> SEQ ID NO: 9
 262 <211> LENGTH: 25
 263 <212> TYPE: DNA
 264 <213> ORGANISM: Artificial Sequence
 W--> 266 <220> FEATURE: n=1:1:1:1 mixture of A,T,C and G.
 267 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
 268 metAmutfw1
 270 <400> SEQUENCE: 9

⁴⁷
 <2207 never has a response.
 It is a "header" only. All
 "N" explanations go on <2237
 line.

(see 1.823 of
 Sequence Rules)

also, show "n" location on
<2227 line

RAW SEQUENCE LISTING

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TIME: 11:39:16

Input Set : A:\Co10217se.txt

Output Set: N:\CRF4\01172006\J530843A.raw

W--> 271 **nnncagatca cgccatacga tctac** 25
274 <210> SEQ ID NO: 10
275 <211> LENGTH: 23
276 <212> TYPE: DNA
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
281 metAmutrev1
283 <400> SEQUENCE: 10
284 gacgtaatatg ttgagccagt tgg 23
287 <210> SEQ ID NO: 11
288 <211> LENGTH: 24
289 <212> TYPE: DNA
290 <213> ORGANISM: Artificial Sequence *same error*
W--> 292 <220> **FEATURE: n=1:1:1:1 mixture of A,T,C and G.**
293 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
294 metAmutfw2
296 <400> SEQUENCE: 11
W--> 297 **nnnggtttga ttgtaactgg tgcg** 24
300 <210> SEQ ID NO: 12
301 <211> LENGTH: 21
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Description of Artificial Sequence: Oligonukleotid
307 metAmutrev2
309 <400> SEQUENCE: 12
310 aaagtctga tcctgaatat c 21

*Oligonucleotide =**Oligonukleotid**use
English
for a U.S.
application.*

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/530,843A

DATE: 01/17/2006
TIME: 11:39:17

FYI

Input Set : A:\Co10217se.txt
Output Set: N:\CRF4\01172006\J530843A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 1,2,3
Seq#:11; N Pos. 1,2,3

FYI

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43
Seq#:1; Line(s) 44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63
Seq#:1; Line(s) 64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
Seq#:1; Line(s) 84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101,102
Seq#:1; Line(s) 103,104,105,106,107,108,109,110,111,112,114,115,116
Seq#:2; Line(s) 117,118,119,120,121,122,123,124,125,126,127,128,129,130,131
Seq#:2; Line(s) 132,133,134,135,136,137,138,139,140,141,142,143,144,145,146
Seq#:2; Line(s) 147,148,149,150,151,152,153,154,155,156,157,158,159,160,161
Seq#:2; Line(s) 162,163,164,165,166,167,168,169,170,171,172,173,174,175,176
Seq#:2; Line(s) 177,178,179,180,181,182,183
Seq#:3; Line(s) 184,185,186,187,188,189,190,191,192,193,194,195,196
Seq#:4; Line(s) 197,198,199,200,201,202,203,204,205,206,207,208,209
Seq#:5; Line(s) 210,211,212,213,214,215,216,217,218,219,220,221,222
Seq#:6; Line(s) 223,224,225,226,227,228,229,230,231,232,233,234,235
Seq#:7; Line(s) 236,237,238,239,240,241,242,243,244,245,246,247,248
Seq#:8; Line(s) 249,250,251,252,253,254,255,256,257,258,259,260,261
Seq#:9; Line(s) 262,263,264,265,266,267,268,269,270,271,272,273,274
Seq#:10; Line(s) 275,276,277,278,279,280,281,282,283,284,285,286,287
Seq#:11; Line(s) 288,289,290,291,292,293,294,295,296,297,298,299,300
Seq#:12; Line(s) 301,302,303,304,305,306,307,308,309,310,311,312,313

VERIFICATION SUMMARY

DATE: 01/17/2006

PATENT APPLICATION: US/10/530,843A

TIME: 11:39:17

Input Set : A:\Co10217se.txt

Output Set: N:\CRF4\01172006\J530843A.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:266 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:271 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:9
L:271 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:292 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:297 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:11
L:297 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:11
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0